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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/578,783	12/06/2006	Katiuscia Arrighi	290242US0PCT	8685	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER		
			CUTLIFF, YATE KAI RENE		
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER		
		1621			
			NOTIFICATION DATE	DELIVERY MODE	
			03/07/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Office Action Summany		Application	on No.	Applicant(s)				
		10/578,78	33	ARRIGHI ET AL.				
	Office Action Summary	Examine		Art Unit				
		Yate' K. C	utliff	1621				
Period fo	The MAILING DATE of this communication or Reply	appears on the	e cover sheet with the c	correspondence ac	idress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed on <i>I</i>	Vovember 28 .	2007					
-	This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	·						
· ·		tion						
,	Claim(s) <u>1-27</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
·) <u> </u>							
· · · · · · · · · · · · · · · · · · ·								
•	☑ Claim(s) <u>26 and 27</u> is/are objected to. ☑ Claim(s) are subject to restriction and/or election requirement.							
ا ا	are subject to restriction at	nd/or election i	equirement.					
Applicati	on Papers							
9)	The specification is objected to by the Exar	miner.						
10)	The drawing(s) filed on is/are: a)	accepted or b)	objected to by the I	Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the co	rrection is requir	ed if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice (3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	3)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Applicant's arguments, on page 9, filed November 28, 2007, with respect to claims 2, 3, 5, 6, 7, 11, 16, 17, 19, 20 and 21 have been fully considered and are persuasive. The rejection of claims 2, 3, 5, 6, 7, 11, 16, 17, 19, 20 and 21 of 112 second paragraph has been withdrawn.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fan W. et al. (CN 1297885), in view of Bromine Compounds, Ltd. (WO 03/002517), and further in view of Shavel, Jr. et al. (U.S. Patent 3,007,940), for the reasons given in the previous office action, mailed September 5, 2007.

Response to Amendment

Specification

7. The new Abstract of the Disclosure, filed November 28, 2007 is acceptable.

Response to Arguments

8. Applicant's arguments filed November 28, 2007 have been fully considered but they are not persuasive.

Applicant states that Fan et al. and Bromine Compounds each disclose the same reaction under two sets of mutually exclusive conditions. Additionally, Applicant asserts that since neither of the reactions of Fan et al. nor Bromine Compounds appear to be problematical, absent the disclosure of Applicant's claimed invention there would be no reason to modify the prior art references. Lastly, Applicant asserts that the references teach away from the claimed invention because each differs in the molar ratio and reaction temperature.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

The difference between the claimed invention and cited references of Fan et al and Bromine Compounds is the temperature and the molar ratio of NH3/anhydride. However, change in temperature, concentration, or both, is not patentable modification unless such changes produce new and unexpected result which is different in kind and not merely in degree from results of prior art. Further, where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955). In this instance, both prior art references animate 1,1-cyclohexanediacetic acid anhydride with NH3. The variations in temperature and molar variations are merely an optimization of range or other variable within the claims that flow from "normal desire of artisan to improve upon what is already known.

Applicant asserts that claims 9, 10 and 11 are patentable. However, Bromine Compounds discloses that precipitation begins when the solution is slightly acid; and according to the precipitation process on page 5 the reaction is maintained at a cooled

temperature. There no evidence to indicate greater purity than obtained by Bromine Compounds. Therefore, any chemist reading the prior art could logically assume that higher purity might be obtainable, and by experimentally varying the conditions of temperature and acidity could fine the most productive conditions.

Applicant asserts that claims 13, 14, 24 and 25 are patentable because the transformation is in the presence of a solvent. However, Fan et al. discloses the use of an organic solvent (methylbenzene) in its process of forming the acid monoamide.

One of ordinary skill in the art would have been motivated to use an organic solvent because of the high yields and high purity asserted by Fan et al. Therefore, the invention as a whole was *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Claims 1-25 are considered to be prima facie obvious.

Allowable Subject Matter

- 9. Claims 26 and 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. The following is a statement of reasons for the indication of allowable subject matter: the closest prior arts Fan et al. and Bromine Compounds fails to teach or suggest a process that does not require a crystallization step for purification of the product after it is precipitated through the acidification of the reaction mixture.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yate' K. Cutliff whose telephone number is (571) 272-9067. The examiner can normally be reached on M-TH 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on (571) 272 - 0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yaté K. Cutliff Patent Examiner Group Art Unit 1621 Technology Center 1600

> /Samuel A. Barts/ Primary Examiner Art Unit 1621